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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Monday, May 22, 2017  
WELL WORK PERMIT  
Vertical / Plugging

CONSOL GAS COMPANY (A)  
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for  
47-061-00328-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number:  
Farm Name: GREER STEEL  
U.S. WELL NUMBER: 47-061-00328-00-00  
Vertical / Plugging  
Date Issued: 5/22/2017

Promoting a healthy environment.

05/26/2017

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B  
Rev. 2/01

1) Date 5/11, 2017  
2) Operator's  
Well No. 7114  
3) API Well No. 47-031 - 0325

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_/ Gas x/ Liquid injection \_\_\_/ Waste disposal \_\_\_/  
(If "Gas, Production x or Underground storage \_\_\_) Deep \_\_\_/ Shallowx

5) Location: Elevation 1454.27' watershed Decker's Creek  
District Morgan County Monongalia Quadrangle Masontown

6) Well Operator Consol Gas Company 7) Designated Agent Christopher Turner  
Address 1000 Consol Energy Drive Address P.O. Box 1248  
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gayne J Knitowski Name Coastal Drilling East LLC  
Address P.O. Box 108 Address 70 Gums Springs Road  
Gormanla WV 26720 Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne J Knitowski Date 5/12/2017

**Greer Steel #7114**

Morgan, Monongalia County WV  
 Original Completion: 12/07/1971  
 API# 47-061-00328  
 Elevation = 1448'

**Procedure:**

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. RIH with Bond Tool to verify TD, log out to verify 4 ½" TOC (4 1/2" Casing Float @ 7437')
3. TIH with 2 3/8" Workstring and load the well with 6% Gel
4. Pump Class A Cement Plug from TD to 4 ½" TOC (4 ½" TOC est. @ 6200')
5. Verify TOC
- ★ 6. RIH Jet Cut/Collar Bust 4 ½" Casing above Bottom Hole Plug
- ★ 7. Attempt to pull 4 ½" Casing
  - a. If unable to pull run bond long/free point and cut where free
8. TIH with 2 3/8" Workstring to 2000' and set Class A Cement Plug from 2000' to surface
  - a. This plug will cover Elevation @ 1448'
9. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.
10. After plugging is complete site is to be reclaimed ASAP

NOTE: All Cement plugs will be Class A Cement, All Spacers between wells will be 6% Gel, Any casing unable to be recovered will be perforated every 100' with 4 shots and 100' cement plugs will be set to cover all cut points.

If it becomes necessary to deviate from this method, approval from the WV DEP Oil & Gas Division will be obtained before proceeding.

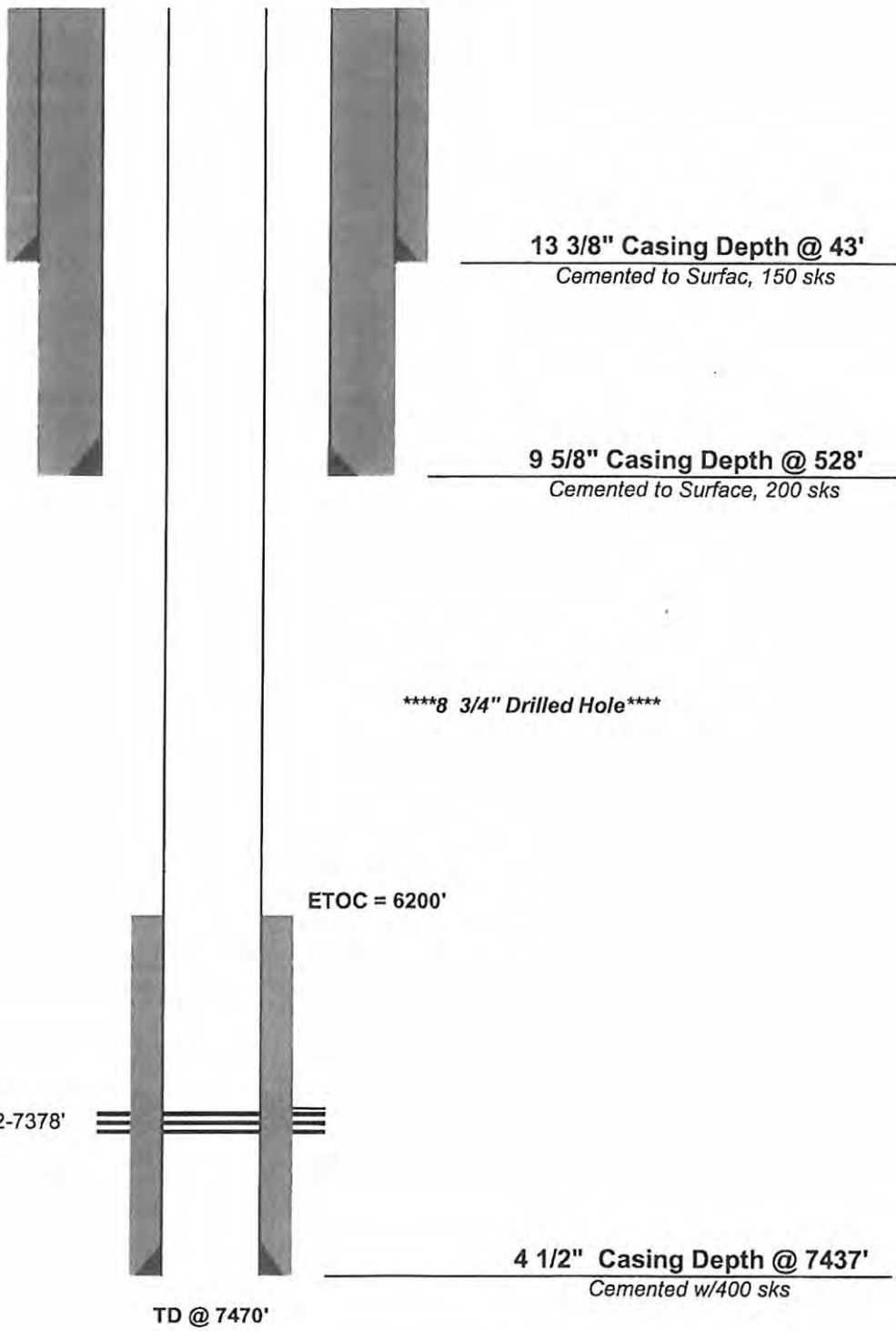
Work Order approved by Inspector:

*Morgan J. Knott*

Date: 5/14/2017

- ★ MUST HAVE A MINIMUM OF 100' CLASS A CEMENT PLUG ACROSS ANY CASING CUT. gmm.

**Greer Steel #7114**  
Morgan, Monongalia County WV  
Original Completion : 12/07/1971  
API # 47-061-00328  
Elevation = 1448'



OG-10  
Rev. - 9-71



**RECEIVED**  
APR 9 1972  
OIL & GAS  
DEPT.

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Quadrangle MORGANTOWN  
Permit No. MON-328

Rotary XX Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas XX \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company Consolidated Gas Supply Corporation  
Address Clarksburg, W. Va.  
Farm Greer Steel Company Acres 1 1/7  
Location (waters) \_\_\_\_\_  
Well No. 11115 Elev. 1111'  
District Morgan County Monongalia  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced 11-6-71  
Drilling Completed 12-7-71  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 4,378 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 7 1/2 Days hrs before test 3:50 RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10 1/2	43	43	To surface 150 sk
9 5/8	528	528	To surface 200 sk
8 5/8			
7			
5 1/2			
4 1/2	7137	7137	400 bags
3			
2			
Liners Used			

Attach copy of cementing record.  
Fractured Chert 12-28-71 with 55,000# Sand, 1500# hulls, 8000 gal 31% acid, 2000 gal 28% acid and 4000 H<sub>2</sub>O.

Perforations: 7222-7216', 7280-7312', 7327-7338' and 7350-7375' 95 Holes

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 50' Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_  
Producing Sand Chert Depth 7222'-7375'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Lime			0	567	Water	50' Fresh
Lime & Shells			567	6000		
Shale			6000	7010		
Lime			7010	7010		
Sand			7010	7050		
Shale			7050	7070		
Lime & Shale			7070	7230		
Chert			7230	7430	Gas 7222-7375'	
ORISKANY			7430	7470	No gas in Oriskany	
Total Depth				7470'		

Consolidated Gas Supply Corporation  
445 West Main Street  
Clarksburg, W. Va.

Measurements taken from K.B. 17' above G.L.

\* Indicates Electric Log tops in the remarks section.



6100328P

STATE OF WEST VIRGINIA  
DEPARTMENT - OIL & GAS CONSERVATION COMM

W.VA. OIL & GAS WELLS  
1976 MASTER LISTING

REPORT NO. CCA030P1 PAGE 0369  
CURRENT DATE - 03/31/81  
REPORT DATE - 03/31/81

API NUMBER - 47-061-0328-G  
STATUS - 00  
TYPE WELL - GAS  
OPERATOR - CONSOLIDATED GAS ID - 189  
FARM - GREER STEEL CO  
COUNTY - MONONGALIA  
FIELD - SOUTH BURNS CHA FIELD CODE - 313  
DISTRICT - MORGAN  
QUADRANGLE - MASONTOWN  
LOCATION - N 2957 FEET DECIMAL - 79.84384  
LONGITUDE - 79 DEGREES 50 MINUTES - SEC  
LATITUDE - S 3062 FEET DECIMAL - 39.57492  
\*\*\*\*\*  
PAY FORMATION - 461-ONONDAGA  
F. O. FEET - 7.470 800-

\*\*\* COMPLETION (CSG) DATA \*\*\*  
LENGTH DIAMETER  
(FEET) (INCHES)  
43 13 3/8  
528 9 3/8  
7.437 4 1/2

\*\*\* GEOLOGICAL DATA \*\*\*

ELEVATION - 1448.00  
COMPLETED - 120071 ISSUED -  
DEEPEMED -  
REWORKED -  
PLUGGED -  
FRACTURED -  
TYPE FRACTURE - UNKNOWN  
INIT POTENTIAL - 4378 MCFD  
ROCK PRESS - 03450 PSIG IN 336 HRS

DEPTH IN FEET	STRAITIGRAPHIC UNIT
7,010 - 7,060	461-ONONDAGA
7,230 - 7,430	463-HUNTERSVILLE CHERT
7,430 - 7,470	475-DRISKANY
-	000-
-	000-
-	000-
-	000-
-	000-
-	000-
-	000-
-	000-

1976 PRODUCTION

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
OIL (M)												
GAS (MM)	2,581	1,234	1,320	1,544	1,911	2,043	1,567	1,266	1,721	810	1,312	1,191
R.P. PSIG												

ACCUMULATIVE PRODUCTION HISTORY

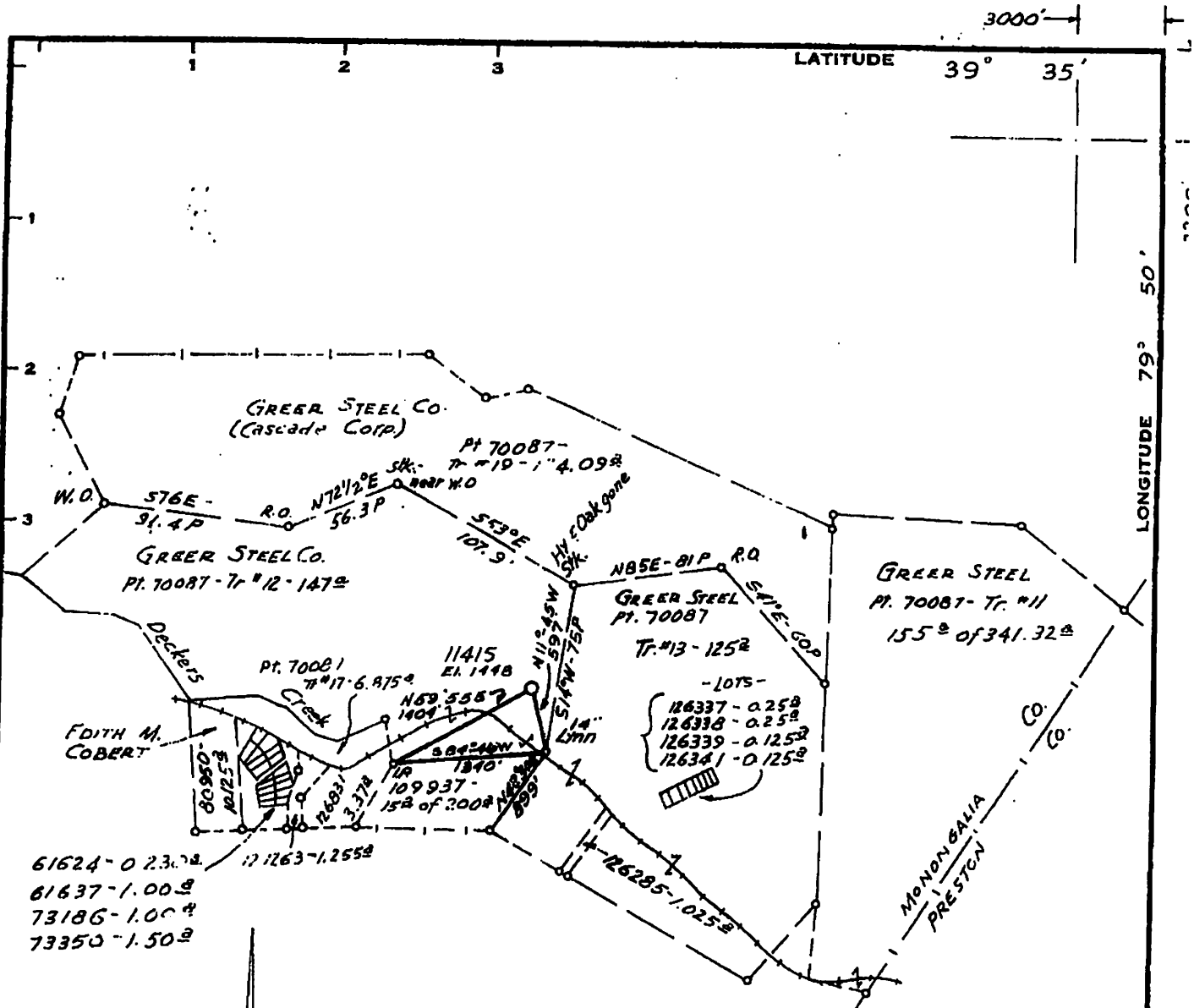
	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
OIL (M)											
GAS (MM)	302,622	142,061	115,936	62,578							
R.P. PSIG											

(M) = BBLs  
(MM) = MCF

\*\*\*\*\*

OIL (M) - GAS (MM) - 13,912

\*\*\*\*\*  
47-061-0328  
\*\*\*\*\*



Minimum Error of Closure 1' IN 200'  
 Source of Elevation U.E. - ROAD FORKS - MABONTOWN 7 1/2 TOPO MAP  
ELEVATION - 1459'  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location - - X  
 Drill Deeper - - I  
 Abandonment - -

UNIT  
 POOLED AREA 593.22<sup>B</sup>

MAP SHEET 933 D-2

FB. 16.01 Pgs 24-29



WW-4A  
Revised 6-07

1) Date: 5/11/17  
2) Operator's Well Number  
7114

3) API Well No.: 47 - 061 - 00328

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Greer Steel Company</u>	Name <u>N/A</u>
Address <u>PO Box 1900</u>	Address _____
<u>Morgantown, WV 26507-1900</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Greer Industries, Inc.</u>
_____	Address <u>PO Box 1900</u>
(c) Name _____	<u>Morgantown, WV 26507-1900</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gayne J Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name <u>N/A</u>
<u>Gormanian WV 26720</u>	Address _____
Telephone <u>304-546-8171</u>	_____

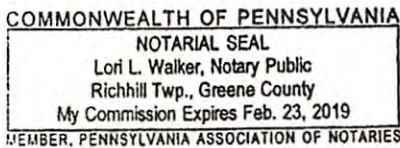
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Consol Gas Company  
 By: Erika Whetstone *Erika Whetstone*  
 Its: Permitting Supervisor  
 Address 1000 Consol Energy Drive  
Canonsburg, PA 15370  
 Telephone 724-485-4035



Subscribed and sworn before me this 11th day of May 2017  
*Lori L. Walker* Notary Public  
 My Commission Expires February 23, 2019

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



WW-9  
(5/16)

API Number 47 - 061 - 00328  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) Decker's Creek Quadrangle Masontown

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

ANY WELL EFFLUENT MUST  
BE CONTAINED IN TANKS.  
JWM

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. na

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Erika Whetstone

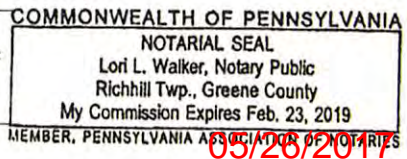
Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 12<sup>th</sup> day of May, 2017

Lori L. Walker Notary Public

My commission expires February 23, 2019



Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

Attach:  
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: AFTER well is plugged reclaim site ASAP.

Title: Inspector Date: 5/12/2017

Field Reviewed?  Yes  No



6100328 P





6100328P







LOCATION MAP  
 MASONTOWN, WV 7.5M USGS QUADRANGLE  
 SCALE: 1"=1000'




**Blue Mountain Inc.**  
 Engineers and Land Surveyors  
 Woman Owned Small Business  
 11023 Mason Dixon Hwy.  
 Burton, WV 26562-9656  
 (304) 662-6486

LOCATION MAP  
 GAS WELL PLUGGING  
 GREER STEEL (7114) GAS WELL  
 MORGAN DISTRICT  
 MONONGALIA COUNTY, WV  
 CONSOL GAS COMPANY  
 200 HALLAM ROAD  
 WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 05/11/2017
SCALE: 1"=1000'
WATERSHED: OUTLET DECKERS CREEK
PAGE <u>1</u> OF <u>1</u>



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
WELL LOCATION FORM: GPS

API: 47-061-00328 WELL NO.: 7114

FARM NAME: Greer Steel

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Monongalia DISTRICT: Morgan

QUADRANGLE: Masontown

SURFACE OWNER: Greer Steel Company

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,381,064.42 meters

UTM GPS EASTING: 599,329.26 meters GPS ELEVATION: 443.26 meters (1454')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:  
Survey grade GPS  : Post Processed Differential

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS  : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Erika Whetstone  
Signature

Permitting Supervisor  
Title

5/11/17  
Date

05/26/2017